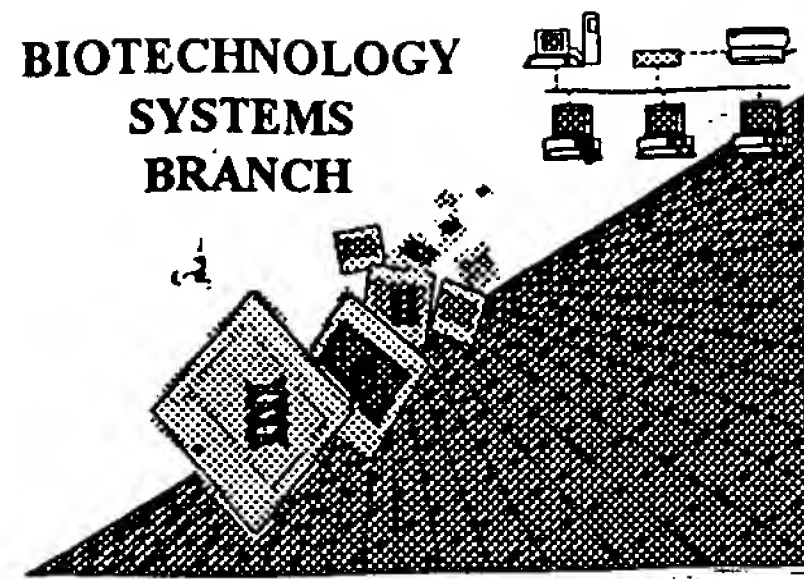


S. Foley

RAW SEQUENCE LISTING **ERROR REPORT**



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/509,712A
Source: 1600 RUSH
Date Processed by STIC: 11/7/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,**
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY**

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216.

PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax)

PATENTIN 3.0 e-mail help: patin3help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

1600

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001
TIME: 13:41:54

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

*see
PP. 1-5*

Does Not Comply
Corrected Diskette Needed

(global error)

insert this

mandatory

numeric identifier

Wherever <221>, <222>

1 <110> APPLICANT: Rubin, Donald H.
2 Organ, Edward L.
3 DuBois, Raymond N.
4 <120> TITLE OF INVENTION: Mammalian Genes Involved in Viral
5 Infection and Tumor Suppression
6 <130> FILE REFERENCE: 01123.0004
7 <140> CURRENT APPLICATION NUMBER: US/09/509,712A
8 <141> CURRENT FILING DATE: 2001-08-29
9 <150> PRIOR APPLICATION NUMBER: PCT/US98/21276
10 <151> PRIOR FILING DATE: 1998-10-08
11 <150> PRIOR APPLICATION NUMBER: 60/062,021
12 <151> PRIOR FILING DATE: 1997-10-10
13 <160> NUMBER OF SEQ ID NOS: 127
14 <170> SOFTWARE: FastSEQ for Windows Version 4.0
16 <210> SEQ ID NO: 1
17 <211> LENGTH: 925
18 <212> TYPE: DNA
19 <213> ORGANISM: Rattus norvegicus
20 <221> NAME/KEY: misc_feature
21 <222> LOCATION: 1- 925
22 <223> OTHER INFORMATION: n = g, a, c or t(u)
23 <400> SEQUENCE: 1

W--> 24 gggggaaaac cnggnaattg ttttttgacg anccaaaaag gggncnagna gcnnttntcc 60
W--> 25 tanatggggg cgggatcntn tccnaggana gattnatgga gtatnccttt tttgcnana 120
W--> 26 ggttgattgc tcttgaaagg ntttgagggtg naattcctcc gtnagtttga ccgtagtcgg 180
W--> 27 atntgaagag ggattgttna gcagncataa tttcattccc tgnacacca gtaacnnttt 240
W--> 28 accgtcattt gggtgggaat tgatntcggg aggtanacan ggccacagtt atttattggt 300
W--> 29 ncggaggatt gcaccaattn ggccggctgc ctctganatc tgtttctcat ccatgccggt 360
W--> 30 tcaccagac gaaagccgaa agcntcggga gtcctaactn tagtccttga aagtcattcc 420
31 cagctgcgta attgggctgt gcagagtcct agctcggtaa atatttgccc cgtgactgag 480
32 ctggagagaa tgctcctttc ttggtccttg gcagctcttg gcagctcaca tgcactgttt 540
33 acctatcctc ccacattccc ccctgaggaa tcatcgtgcc tcggttccct taagtcctct 600
34 caacagaaaa caaggcagag tggaacgaag gaaagtgcgt ggccgtaga aagcctgtct 660
35 cgaatctgtc ccacgtgcct caggtagcgt tccaaacagc aaagattcta gtgaagaaaa 720
36 ataccgtccg gtcaattagt caggtggaca gagcaggacc cgggtgtctt gaagcctcgt 780
37 ccattcctct ggggaagggt ggggggggcg tgtaatgcag ctctcaagaa gaaggatatt 840
38 ttgttttctt ggagaaactg ccatcccagg agctgagagt ggatcagtag gaaggcctgt 900
39 gacaggaagc agggaggttc agcng 925

41 <210> SEQ ID NO: 2
42 <211> LENGTH: 554
43 <212> TYPE: DNA
44 <213> ORGANISM: Rattus norvegicus
45 <221> NAME/KEY: misc_feature
46 <222> LOCATION: 1- 554
47 <223> OTHER INFORMATION: n = g, a, c or t(u)
48 <400> SEQUENCE: 2

W--> 49 caagatngan ggggcggcgg ttcgnccaga gagcgggtag ggaagggaaac gcgccggatg 60

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001
TIME: 13:41:54

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

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W--> 50      agccnggggtg  cgganagcca  gaccccaggc  gtgggaaggg  gagagagata  gagcggccgg      120
W--> 51      ttgggaagag  gaggaccgtg  gttndataat  aacagaaagc  ccagagggac  gtanccatcc      180
W--> 52      gggatggaga  gaggtaggga  atccagntgt  aagtcceaaa  ctgccaccac  cttcatnaga      240
W--> 53      actgcttcgt  gtaagggtcac  gcaccgggce  agctgtccng  agtggcggtc  ctggcgtggt      300
W--> 54      aagtttagcta  aagtnactgc  aactccgnct  gtgcagactg  ntcgtaaatt  ctctctgtcc      360
W--> 55      gccaaattct  ccctcctatt  aaacttttca  cttcctttca  cttagtttcc  tnacttcttt      420
W--> 56      caaacggaag  ctgtaactga  gcctgccacc  cnganacntt  gtggttgcca  tttttatgct      480
W--> 57      aaagtaatcg  tgttttttat  gcctgtcaac  tcccttttca  tntaaagcag  ggcntaccct      540
58      attataactc  tgcc      554

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60 <210> SEQ ID NO: 3

61 <211> LENGTH: 891

62 <212> TYPE: DNA

63 <213> ORGANISM: Rattus norvegicus

64 <221> NAME/KEY: misc_feature

65 <222> LOCATION: 1- 825 878 (See below)

66 <223> OTHER INFORMATION: n = g, a, c or t(u)

67 <400> SEQUENCE: 3

```

W--> 68      ttngaaanaa  tttccgtnaa  ggtcngnaat  nggccccgga  aaaaatgngt  tcctccccac      60
W--> 69      cttcattggn  gcggatcctg  ccngggaggc  caatgggtta  acaaataatc  tttnggagnt      120
W--> 70      ntggtngggg  ggggagggac  ncccacagan  tcatgnggtg  gttngggngg  ngggcatcgt      180
W--> 71      tnngatatta  tcacattntg  ngaanctatg  tnggggcttc  ctttcngaca  ggtggtggtt      240
W--> 72      nnacangngg  atgtgtgctt  cttttttcag  cagtggtgga  cccggattct  aagaccctta      300
W--> 73      cngtaacaat  gccctntttt  cctaagccta  accagtcctt  tangaggant  gctcttggnn      360
W--> 74      acccatgctg  nntcacctag  ccttggnntca  catnttnnac  acaggaaaag  gcagcatgtc      420
W--> 75      ttntnggagc  tcagcttatt  cccttccent  cccatccagn  atctccctgg  gntggatgag      480
W--> 76      gtggatgacg  catcttcaaa  gcacccccac  tntcatggga  tgtgcacagg  agcttcggtg      540
W--> 77      gaaatgtggt  gcgcgaccag  gcttggtgtag  gaaacaacag  actactcgaa  attaaagtcn      600
W--> 78      taccttgtag  ggttctcaga  ggctttttac  cattaataaa  catttgaatc  ntaagaaggg      660
W--> 79      agcacagcat  gtaatatntt  tcaaattatc  aggcnttgca  accttcatta  gtttctctta      720
W--> 80      cgcagctggg  ngtggtggtg  tgtaccttta  atctcagcac  tgaggaggca  cngatatctc      780
W--> 81      catctctgtg  acttccagac  cggntcggcc  agagcaagtt  ccaggccacc  cagatgagat      840
W--> 82      gctcacagag  gggacctttt  tntgatgacc  aacgnaghat  gcaagtaagg  a      891

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84 <210> SEQ ID NO: 4

85 <211> LENGTH: 974

86 <212> TYPE: DNA

87 <213> ORGANISM: Rattus norvegicus

88 <221> NAME/KEY: misc_feature

89 <222> LOCATION: 1- 974

90 <223> OTHER INFORMATION: n = g, a, c or t(u)

91 <400> SEQUENCE: 4

```

W--> 92      aaaanaanat  attccgnntc  tnntagcna  gaagttnntc  gagcnntccc  ccgtnttttt      60
W--> 93      aaaaaccenc  ggattccggn  nntcgggntt  taannngntt  tttaanggcc  cnaagncccn      120
W--> 94      nttattgccg  ncntttcccc  cccgctnttg  cncctcttta  cttngagant  ngtgntncna      180
W--> 95      agattttnaag  gttnttgccc  ccccggtttt  tnttccccctn  nttttcccn  nagntttaaa      240
W--> 96      accggtntgg  gttncnannt  nnttgnancc  ncnattggg  gtttccgntt  accngggttt      300
W--> 97      ttccccatgn  ccgttccctc  caatnttgna  cttcccnngt  cnggggtccna  atnccnngna      360
W--> 98      acngntcnan  ccttattgac  aattaatttt  tccttgngna  ntctgncccc  cngnannttg      420
W--> 99      gggttcttgg  gngcagggcc  tttttttent  tggnggcaan  cncataaant  ttaccagntt      480
W--> 100     gattgctaag  gaagtancca  tggttgngaa  ccccccttn  ttntctccca  gatggaacct      540

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last 'n' is at location 878

> <220>

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001
TIME: 13:41:54

Input Set : N:\Crf3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

W--> 101 aggatttttg aactgcagag gcttcagggt cttgggaagc ggaggcagnn aaagattgga 600
W--> 102 gtgcactgtc cttttgcaat atgggggttg cctgcctgct ggctcntctc ctgctntntc 660
W--> 103 agatggtgac tgaggctact tcngcaggac tnggaataat catgtccagg tggctgccct 720
W--> 104 tccgagcaga aagggacaga cgtggggcga tgaagttgct atcgtttntt tttttttctg 780
105 cacagactgc aaagtgtgca gagggaggga ggctgtgcaa aaaaaaaaaa aaaaaaaaaa 840
106 aaaaaaaaaa ccgaggacgc agaagttaga ctgctgaccc atttggtgca tgtgtgcccc 900
W--> 107 tggagggagg ggaccttntt taaagggttc acgcggcacg cantgggnaa nngnncctnt 960
W--> 108 acgnnnctcc caga 974

110 <210> SEQ ID NO: 5

111 <211> LENGTH: 850

112 <212> TYPE: DNA

113 <213> ORGANISM: Rattus norvegicus

114 <221> NAME/KEY: misc_feature

115 <222> LOCATION: 1- 850

116 <223> OTHER INFORMATION: n = g, a, c or t(u)

117 <400> SEQUENCE: 5

W--> 118 anttttccct caagnaaant ntggtttggg caacttgaag acgcttnnac cnaaaaccct 60
W--> 119 tgnggagntt ggngacctn ttaccgnaan gagtgggaaa cgttttctc cgggttnang 120
W--> 120 gttaggggga cccgnnggaa aattttaaaa ccnngngggc tttttcgaat taaggggaaa 180
W--> 121 ngcggtttng gtntntgaag ggcggnggt tggagtcnna gtccagagtt gatttccacc 240
W--> 122 cacaaatntg ggaggtgncg gggaatgntg ncnttttctt gngatgaggg ntgccgtnc 300
W--> 123 ggantaacag ngnttgcntt gtntngcnaa acgaagagtn tctgnttgg aataggngtt 360
W--> 124 cngttcgang ganccagatt tangngntgg agnaaggatt nggcagataa angcntgaga 420
W--> 125 natgnanent ggancaggtc nggncnnagn ntacagatga tgnnccana canganataa 480
W--> 126 ntncagatca cagtcgtacc cngggctggg ccatgaanag ggcattccca gacnnacaca 540
W--> 127 ngccttnana antgntcaga gaaccancag tggntanggg ntgccnnnn naccagggaa 600
W--> 128 gacccggggc gtgncggata ttgacacanc agatnnccatt tggggncggg tccaggggtt 660
W--> 129 atgntcnccg agtacnagan angatcntcc aaccgggaat ncgggtgctcc ngtcgtccga 720
W--> 130 tgnaatgagt cgnccggnaa cctcatatcc aagaaacnat acagcagtg nntccgagtc 780
W--> 131 tcgtatantc nttgcggngg gaggctatnt tcagaggnc aagattaccgt tagcgggana 840
W--> 132 aagtngaana 850

134 <210> SEQ ID NO: 6

135 <211> LENGTH: 531

136 <212> TYPE: DNA

137 <213> ORGANISM: Rattus norvegicus

138 <221> NAME/KEY: misc_feature

139 <222> LOCATION: 1- 531

140 <223> OTHER INFORMATION: n = g, a, c or t(u)

141 <400> SEQUENCE: 6

W--> 142 ttngggcngg gtctctctg ngtgngngtn tcccnanag ggggggtctc acagtgtng 60
W--> 143 ngctntntgt ctgtgtngtg cccctgtccn catctctcac nccagggaga gagatgtgag 120
W--> 144 ananacatca gagatctctn gnacagtgtt tcacaagagt ctatcnana gagcacatct 180
W--> 145 gcccgggng anacacaact ctaaatgtgt ctcanntgat ctctctnttg tgtctctnac 240
W--> 146 atatgnggac atgctctcag agtatngnt ctcttngcn cttntgcaca cacacacaca 300
W--> 147 cacacacaca cacacacaca cacncttctc tctggcacag ggntatggca nagcacatnt 360
W--> 148 tnnagntca nagctntata tgagtgtgtg gcgaaaggng tnatnanann gacnnccca 420
W--> 149 gcnnatatag gggggngnnc tctngggctc tcttnggnaa tntgngggng agtctgcna 480
W--> 150 cacagcgct cnnacccanc nnnttggggc ccccaggng tttttcncc c 531

152 <210> SEQ ID NO: 7

RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001
TIME: 13:41:54

Input Set : N:\Crif3\09192001\I509712A.raw
Output Set: N:\CRF3\11072001\I509712A.raw

153 <211> LENGTH: 572

154 <212> TYPE: DNA

155 <213> ORGANISM: Rattus norvegicus

156 <221> NAME/KEY: misc_feature

157 <222> LOCATION: 1- 572

158 <223> OTHER INFORMATION: n = g, a, c or t(u)

159 <400> SEQUENCE: 7

W--> 160	tttttntgtg gccctttaaa ctctgngtgn ccgtntnccc nagagggggg gtctcacaag	60
W--> 161	gagacancgg nnacacagag gttttgngnn tattgngagt ctctgcgcac nccananttt	120
W--> 162	aaccncgggg nctcntgttt tatttttaaaa aaaaagagtc ncatgtntat ttctctnatg	180
W--> 163	tgaaaatcnc attcanagtt ntgggggtttc ccntgaggag anatagagtt tcacactctt	240
W--> 164	ctctccgagg ggtcntcnca tgtntctccc caatgtgngn ggnacacaca tgnngccccc	300
W--> 165	aggggggtgng ctctctctgc ncagggcncc ccccaanang tagaganaca ntgtggtgtt	360
W--> 166	tcacaacaca attcncgaga nattntgttc cncantggnn gtctnagntc ncatgttgtg	420
W--> 167	gngacangtt agnncccc atnttcccc ccctttcaca ctgccccnag agagagaaan	480
W--> 168	tctnggcccc ctctanannt ntttttaaat cnccccnnac cacaggtnnt cccaggggtat	540
W--> 169	gngacntcnc cnnccccnca aaagatntgc nc	572

171 <210> SEQ ID NO: 8

172 <211> LENGTH: 906

173 <212> TYPE: DNA

174 <213> ORGANISM: Rattus norvegicus

175 <221> NAME/KEY: misc_feature

176 <222> LOCATION: 1- 906

177 <223> OTHER INFORMATION: n = g, a, c or t(u)

178 <400> SEQUENCE: 8

W--> 179	tgggagttctc tctcatatgg cgcnttcccc aaaggggngt ctctntccng agncgcanac	60
W--> 180	gcgagaanac tctgtnnant ngctctcccc cncnccnaca gngtganant caaaacctct	120
W--> 181	agagcccccc agaaancccc tntctcaaan aaagagaaag agaagancga gnagnagaga	180
W--> 182	ganaganaga gagagagtgt ggancntnt cctcnganc ccannnnan ngtgngggcnc	240
W--> 183	actcncnngt gnnngnacc ccnggggatt tncgcgtgtc cccttgngct ctgtntanga	300
W--> 184	gananatatt tntagtctct ctntcgcccc ctccgntgtc acgtgtgcgg ggcccnngag	360
W--> 185	acacagacac ntctctcang gggaacacat annagactcnc acntgtgttt atattcnc	420
W--> 186	ctcccnctca cacacacaca cacacagnag atattnngct actctctctc tgtcacaggg	480
W--> 187	gtacanattt antctnggcc anaccctct cngaagngng ggcanngtaa accccgcccc	540
W--> 188	ctctcngaga angngagggc gntttacntt ccngtgggcg tgnccgngcc cccgagactc	600
W--> 189	cccttngnac cccctntna accctctntt tgaacncaac ncacctccc cnttttctcg	660
W--> 190	gggnnggncc ngcncccnct ctcncaaaaa aaatttnaan ttngtcccc ntccccntnt	720
W--> 191	ttcnggnana aaccgtgtcc ggggggggan nactcttttt tgnccctaaa atcaantttt	780
W--> 192	ttcccccttt ccnggggacc ccggnnttcc tttttaaaaa aaaanaaccc tttctccctt	840
W--> 193	ttaaaagnac cnttttttcc naaaaccgtt ccgnatttaa ttcctaaatt cccttccccn	900
W--> 194	ncccg	906

196 <210> SEQ ID NO: 9

197 <211> LENGTH: 914

198 <212> TYPE: DNA

199 <213> ORGANISM: Rattus norvegicus

200 <221> NAME/KEY: misc_feature

201 <222> LOCATION: 1- 914

202 <223> OTHER INFORMATION: n = g, a, c or t(u)

203 <400> SEQUENCE: 9

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001

TIME: 13:41:54

Input Set : N:\Crf3\09192001\I509712A.raw

Output Set: N:\CRF3\11072001\I509712A.raw

W--> 204	gggatgngcc ctcagatcaa tacacccctc ngggggngtc tctctctatc tcccncagna	60
W--> 205	gactcccatc tctntntntn ccccaganc tggngaacgg nggtgtggnga nccntntctg	120
W--> 206	ttctcnantc tctaaaagng cnaaaagcgc ananacacgn gcctctctat anatctcacg	180
W--> 207	tgtcccnngn nctctcngac ccctnntctg tntgagagac accctntctc aaaatatagt	240
W--> 208	gtacacngnc tttgnggctc tccccttttc tctccactnt tgagnngaa acgcggngtt	300
W--> 209	ntctctgaga tgtaganagn gtccectnct cnatatatgt gttncceact ccnnaggng	360
W--> 210	tctcataaaa atcnctnttc tcaacaccac cncctnacc cccncacga gaacacntcn	420
W--> 211	ccaccncnan gacacaaana naaggngtnn anaacccan aaaaactnng ntntcngntt	480
W--> 212	tacacacaca cacacncacn ctncncaca cccccacna aatgggagaa aaaacagaga	540
W--> 213	ggngtgggtg ttngnntcaa caccntntta cctctctgnt gnnanttgag aaaatatttc	600
W--> 214	tntncttacc cctctccctc ctctgtgtgt ngannatate ngntctagat gtcctnacc	660
W--> 215	tcccaaacc tttctcnggn agagacntct ctntnttttt ccccncttc catttgaaan	720
W--> 216	anangagaag gnccaaaaag gngggngtct tctcggaat ncnccctttt ggcccccaa	780
W--> 217	cctgggtttt tttcccccctt ccttttaatn antttttcna nacaaanctt tnnnggtttn	840
W--> 218	ggaaaangcc tttnnctggn nnttttttcc ctcccccctt tnnangggnt tcccccccc	900
W--> 219	ccngaatttt tttt	914

221 <210> SEQ ID NO: 10

222 <211> LENGTH: 400

223 <212> TYPE: DNA

224 <213> ORGANISM: Rattus norvegicus → 2207

225 <221> NAME/KEY: misc_feature

226 <222> LOCATION: 1- 400

227 <223> OTHER INFORMATION: n = g, a, c or t(u)

228 <400> SEQUENCE: 10

229	ttcctgggtg cggctctctc tgagatagt tatccctat aggggggggtc tcaactttagc	60
230	acagtttatg aatattatta catatttcac aagactttat attgttataa tatgcctcat	120
231	gtgagatata tgtgattctg tgggtggtgt ctcagagggg gtttgggtta ttggggataa	180
232	tagtttgccc ctgcgggggt ctatatattat atatgtgaca caatatatta gagagatttt	240
233	tggttatata tatttccctt cgcgggggtg gagatttate acagggggag agcttttccc	300
234	ttgttagcaa aagtccttgg tctcgtcccc catctcccaa aaaaaaaaaa atgtgaaaaa	360
235	aaaaaaaaaa agggccctc ttgagtgatg tccccttctt	400

237 <210> SEQ ID NO: 11

238 <211> LENGTH: 880

239 <212> TYPE: DNA

240 <213> ORGANISM: Rattus norvegicus → 2207

241 <221> NAME/KEY: misc_feature

242 <222> LOCATION: 1- 880

243 <223> OTHER INFORMATION: n = g, a, c or t(u)

244 <400> SEQUENCE: 11

W--> 245	acccaatctt nanggtggca gtgngngnga tcttaacggt ttttnagaaa aaaaantnct	60
W--> 246	tcgctcncac cccaagcct cccntttcta ncagcttttt tatangaaaa aagatgataa	120
W--> 247	cgaaatttta aaaaccgtcg ttagaggaaa tgaaggttca gccgaccatt acctganagt	180
W--> 248	aatgaaggtn ttccggaggg ttgccttcca atcccagatg gatttgagtt tcaggatcaa	240
W--> 249	ttcagttacc gntgaccatc caccnncctc cngtataatc attngatgag gatgaatggt	300
W--> 250	gagtgagtga tgatgatgat gatgatgatg aagggatgag aagnacacta tgataacaag	360
W--> 251	tgtctcagtc cacattaagg tttgcctgna aattagtgca taagccatgg gagacaaatt	420
W--> 252	cttttcnnac acaattaata gtntcttant ccttcccatc ttctctgccc cattctgttt	480
253	tccaccacag gtctgcagcg ggctacagct tccagtctcc aagcaaatac cagaactgga	540
254	ggagaaaatt ccagtcagtg gagtcatggg cagggggagg ggtggggtaa gggcagtggc	600

The types of errors shown exist throughout the Sequence Listing. Please check subsequent sequences for similar errors.

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/509,712A

DATE: 11/07/2001

TIME: 13:41:55

Input Set : N:\Crif3\09192001\I509712A.raw

Output Set: N:\CRF3\11072001\I509712A.raw

L:7 M:270 C: Current Application Number differs, Wrong Format
L:24 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:24 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:25 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:25 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:26 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:26 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:27 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:27 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:28 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:28 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:29 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:29 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:30 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:30 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:39 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:1
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:49 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:50 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:50 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:51 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:51 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:52 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:52 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:53 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:53 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:54 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:54 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:55 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:55 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:56 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:56 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:57 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:68 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:68 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:69 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:70 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:70 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:71 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:71 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:72 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:72 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:73 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:73 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:74 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3

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L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:75 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:75 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:76 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:76 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:77 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:77 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:78 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:79 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:79 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:80 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:81 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:81 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:82 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:3
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:92 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:92 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:93 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:93 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:94 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:94 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:95 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:95 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:96 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:96 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:97 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:97 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:98 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:98 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:99 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:99 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:100 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:100 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:101 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:101 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:102 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:102 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:103 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:103 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:104 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:104 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:107 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:107 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:108 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:4
L:108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:4
L:118 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:118 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5

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L:119 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:120 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:5
L:120 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5